

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 December 2000 (07.12.2000)

PCT

(10) International Publication Number
WO 00/74215 A1

(51) International Patent Classification⁷: H02K 9/08, 1/32

(21) International Application Number: PCT/SE00/01068

(22) International Filing Date: 25 May 2000 (25.05.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
9901928-3 27 May 1999 (27.05.1999) SE

(71) Applicant (for all designated States except US): ABB AB
[SE/SE]; S-721 83 Västerås (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LANDGREN, Nils-
Ivar [SE/SE]; Stigbergsgatan 33, S-723 41 Västerås (SE).

(74) Agents: EMTEDAL, Artur et al.; L.A. Groth & Co.KB,
Box 6107, S-102 32 Stockholm (SE).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

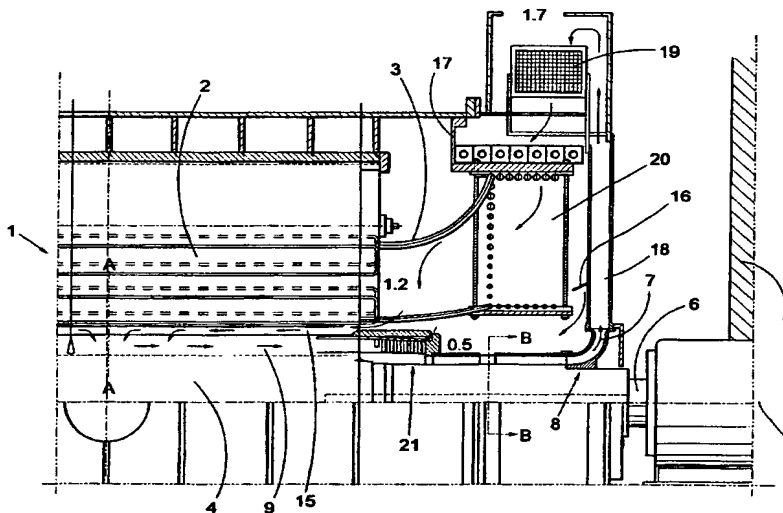
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

[Continued on next page]

(54) Title: AXIAL REVERSED COOLING OF A ROTOR AND A COIL END SECTION IN AN ELECTRICAL ROTATING MACHINE



(57) Abstract: An embodiment for air-cooling of the rotor and the coil end section in a rotating electric machine provided with a stator whereby the cooling air passes first through the coil end section (20) and then completely or partly axially into the air gap (15) between the rotor (4) and the stator (2) so as to reverse axially at the centre of the rotor by being guided into the axial rotor ducts (9) and then out through the rotor ducts whereupon the air is cooled and the circulation is repeated, and that a rotating electric machine (1) is cooled in accordance with this embodiment.



WO 00/74215 A1